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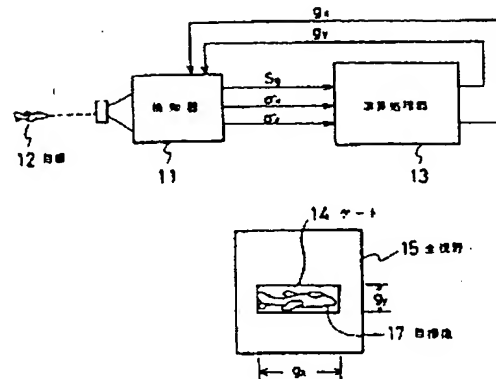
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TITLE : IMAGE DETECTOR



ABSTRACT : PURPOSE: To make an image detector more resistant to a jamming by detecting the direction wherein a target is tracked, the area of a gate and a tracking angular velocity, obtaining a gate width for controlling the aspect ratio of the gate from the gate area and the tracking angular velocity in a processing unit and setting a gate configuration matching the configuration of the target.

CONSTITUTION: A detector 11 composed of a solid-state image persing element and used for a guided missile tracks a target 12. The detector 11 is set with a gate which tracks the target 12. The information of a gate area S_g and tracking angular velocities σ_x and σ_y is applied to a processing unit 13 from the detector 11. Gate widths (g_X , g_Y) for controlling the aspect ratio of the gate are obtained in the processing unit 13. That is, when the ratios of the gate widths (g_X) to (g_Y) and of the tracking angular velocities σ_x to σ_y are made equal to each other, a sideways long gate configuration is obtained for the laterally moving target 12 and, by controlling the aspect ratio of the gate by the gate widths (g_X) and (g_Y), the proper configuration of the gate 14 matched to that of a target image 17 can be set.

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